DATA EXCHANGING DEVICE

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Utdrag

PROBLEM TO BE SOLVED: To reduce the overheads of frames by detecting that the data amount of a terminal side transmission buffer is for being maintained fixed after congestion information is sent out to a channel processing part and forcibly stopping data transmission from a corresponding transmission buffer to a terminal.

SOLUTION: The states of the terminal side transmission buffer 115 and a channel processing side reception buffer 113 are monitored in the congestion state detection part 117 of a channel housing part 10, and when a congestion state is detected, the congestion information is informed from a dedicated frame congestion informing information preparation part 110 or an individual line congestion informing information preparation part 111 to the channel processing part 20. At the time, an under-congestion-state transmission buffer length detection means 118 is driven by a congestion state detection part 117, and when transmission data from the channel processing part 20 are not stopped, the under-congestion-state transmission buffer length detection means 118 detects that the data buffer length of each terminal side transmission buffer 115 exceeds a threshold value set beforehand and a corresponding transmission data forced stoppage instruction means 119 is driven.

データ交換装置

回線収容部

回線処理部側データ受信部 112

回線処理側受信バッファ 113

フレーム分離器 114

端末側送信バッファ 115

端末側送信バッファ

端末側データ送信部 116

輻輳状態検出部 117

輻輳状態中送信バッファ長検出手段 118

対応端末データ強制停止指示手段 119

専用フレーム輻輳通知情報作成器

復帰情報輻輳通知情報作成器 111

回線処理部 20

端末 3